

OCEAN and COASTAL ECOSYSTEM HEALTH

SUPPORTING SCIENCE and MANAGEMENT

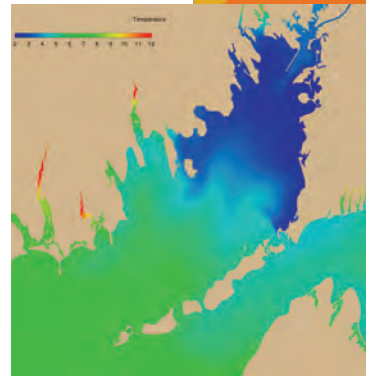
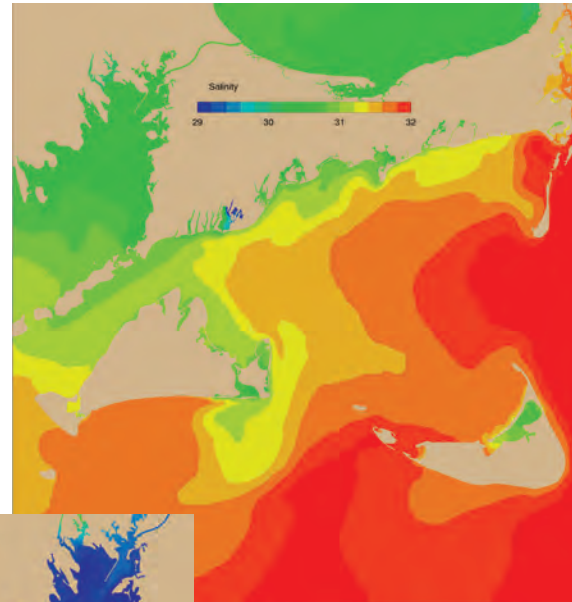
DATA for RESEARCHERS and RESOURCE MANAGERS

Improving water quality, achieving sustainable fisheries, and maintaining healthy ocean and coastal ecosystems are priorities in the northeast. To help reach these goals, NERACOOS is collaborating with state and federal agencies, industry, nongovernment organizations, and academic institutions on developing and implementing ecosystem approaches to management.

Ecosystem-based management requires a coordinated framework of ocean observing, research, and modeling to assess and forecast the state of the ecosystem and its constituent habitats and living marine resources. NERACOOS contributes data and models to ecosystem-based management and scientific research.

Tools:

- Real-time data map
- Ocean forecasts of winds, waves, currents, water temperature, and more
- Long-term data on ocean conditions



NERACOOS provides forecasts of water temperature (left), salinity (above), and other ocean conditions, as well as real-time and historical data. This information is vital for understanding and managing the region's marine resources.

BENEFITS

• ENHANCED FISHERY MANAGEMENT

Regional and state programs use historical and real-time data from NERACOOS in management of lobster, shrimp, and other fisheries.

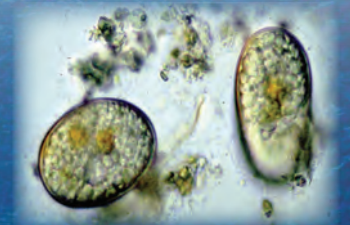
• WATER QUALITY MONITORING

NERACOOS provides coastal managers and health officials with real-time and historical observations of water quality.

• FORECASTING RED TIDE

State programs integrate real-time buoy observations to improve their forecasts of harmful algal blooms.

“NERACOOS directly contributes to protecting the lives of those who enjoy harvesting and consuming the region's shellfish.”
Harmful Algal Bloom Manager



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